## **REMARKS**

Claims 1-11 are pending in the application. A minor amendment is proposed to claim 9. Reconsideration and withdrawal of the final rejection are respectfully requested.

Applicant submits herewith a new Abstract in order to obviate the objection noted in the Office Action.

In the Office Action, independent system claim 1, and independent method claim 9, were rejected as obvious over SETO (2002/0152015) in view of CHAKRABORTY et al. (US 5,839,534). Applicant respectfully traverses this rejection.

Applicant's system claim 1 is provided to control brakes of a commercial vehicle. The system includes an adaptive distant regulation and/or driving speed device, i.e., in other words an intelligent system such as a known ACC system. Claim 1 also requires an electronically controlled brake system, such as an EBS system for commercial vehicles, which is designed to distribute braking force between a friction brake and an additional retarding brake (see ¶ 3). Applicant's system advantageously utilizes an urgency signal from the ACC system to control the distribution of the braking force to the friction brake and the retarding brake in accordance with the EBS system. Specifically, claim 1 recites "wherein the electronically controlled brake system distributes the desired amount of braking force to the friction brake system and the retarding brake

based upon the urgency signal". That urgency signal is modulated by the

adaptive distance regulation and/or driving speed device, i.e., the ACC system.

Applicant's background of the invention acknowledges that ACC systems,

which modulate an urgency signal, and EBS systems, which "blend" in a time-

dependent manner the transfer of braking force between the friction brake and

retarding brake are known. (See ¶¶s 2 and 3).

The so-called brake "blending" function (also called "endurance brake

integration" or "retarder blending") effectively distributes the braking force

between endurance brakes, such as retarders, engine brakes, etc., and

foundation brakes, such as pneumatic disc brakes, in accordance with a fixed

scheme. That scheme utilizes as much braking force as is possible from the

endurance brakes, which are "wear resistant", with the remaining necessary

brake force desired from the foundation brakes. Such a fixed brake force

distribution scheme is not suitable for ACC and other driver assistance systems.

Those systems sometimes require very fast reaction (the low dynamics of the

endurance brakes must be compensated by the fast reacting foundation brakes)

but, most of the time, they attempt to avoid lining wear (foundation brakes shall

only be used if the endurance brakes are not capable of providing the desired

deceleration).

In view of the above, Applicant's invention is directed toward novelly

influencing the brake force distribution within the EBS system depending upon

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an urgency value generated and sent by the adaptive distance regulation and/or driving speed system, i.e., the ACC system.

By contrast, SETO is only directed toward an ACC system that operates or addresses a "plurality of braking-and-driving force control systems" (see claim 1). SETO addresses one "braking-and-driving force control system" for accelerating the vehicle, i.e., the engine, and another "braking-and-driving force control system" for decelerating the vehicle, i.e., engine/friction brakes. This operation conforms generally to that of every ACC system on the market. No where does SETO disclose using a hazard based urgency signal to <u>influence the brake blending of an EBS system</u>, which EBS systems are now state of the art in commercial vehicles.

In the Office Action, the Examiner argues that Step 006 shown in Figure 2 and described in ¶¶s 31 and 32 provide a modulated urgency signal that controls an EBS system. Applicant respectfully submits that SETO does not provide an EBS system, nor does SETO suggest or hint at controlling the distribution or "blend" of an EBS system based on an urgency signal from an ACC system. The Examiner's reference to the brake-fluid pressure control system 5 as being an EBS system is not supported in SETO, nor would it be considered an EBS system to those of ordinary skill in this art. EBS systems are well known and, as noted above, the brake blending functions thereof are traditionally not suitable for use with ACC and other driver assistance systems. Regarding Step S006 in Figure 2, this step merely shifts between the "braking-and-driving force control"

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systems traditionally used with an ACC system, such as the engine control

system 6 and the brake-fluid pressure control system 5 depending upon whether

a preceding vehicle is present or not.

Reiterating, nothing in SETO discloses or suggests Applicant's claimed

distribution by an EBS system of "the desired amount of braking force to the

friction brake system and the retarding brake based upon the urgency signal"

from the "adaptive distance regulation and driving speed device".

Regarding CHAKRABORTY, this reference merely describes a way for

ACC systems to address engine control systems. There is absolutely no mention

of any brake blending via an EBS system, nor the use of an urgency value from

an ACC system to control the distribution of such a brake blending. In view of

the foregoing, neither SETO nor CHAKRABORTY alone, or in combination,

disclose, suggest or even hint at using an urgency signal to influence the strategy

of the brake blending function of modern EBS systems. As such, Applicant

respectfully submits claim 1, which recites an "electronically controlled brake

system designed to distribute a desired amount of braking force to a friction

brake system and an additional active retarding brake", and to do so "based upon

the urgency signal" is patentable over CHAKRABORTY in view of SETO.

Similarly, Applicant's independent method claim 9 recites the act of

"distributing a desired amount of braking force to a friction brake system and an

additional active retarding brake as a function of the urgency signal using an

electronically controlled brake system". For the foregoing reasons, Applicant

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respectfully submits claim 9 is also patentable over CHAKRABORTY in view of

SETO.

Finally, Applicant's dependent claims 2-8 and 10-11, respectively depend

from independent claims 1 and 9 and are also submitted to be separately

patentable. In particular, dependent claims 5, 6 and 11 specify the manner of

distributing or blending the braking force between the friction brake and

retarding brake based upon the urgency values. As neither CHAKRABORTY

nor SETO disclose and/or suggest an EBS system for blending the braking force,

let alone one that does so based upon an urgency signal from an ACC system,

Applicant respectfully submits claims 5, 6 and 11 are separately patentable over

CHAKRABORTY in view of SETO.

In view of the foregoing, Applicant respectfully requests that the final

rejection of claims 1-11 be withdrawn and that these claims be passed to

issuance.

If there are any questions regarding this amendment or the application in

general, a telephone call to the undersigned would be appreciated since this

should expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as

a petition for an Extension of Time sufficient to effect a timely response, and

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please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #037068.52641US).

Respectfully submitted,

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